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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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ATTY. DOCKET NO. 501293.01 (30264/US)

APPLICATION NO. 10/690,810

APPLICANT(S)

James W. Meyer and Cory Kanski

FILING DATE

GROUP ART UNIT 2186

_	October 20, 2003	
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EXAMINER INTIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,818,844	10/06/98	Singh et al.	370	463	
	AB	6,067,262	05/23/00	Irrinki et al.	365	201	
	AC	6,246,618 B1	06/12/01	Yamamoto et al.	365	200	
	AD	6,272,609 B1	08/07/01	Jeddeloh	711	169	
	AE	6,477,592 B1	11/05/02	Chen et al.	710	52	
	AF	6,523,092 B1	02/18/03	Fanning	711	134	
	AG	6,523,093 B1	02/18/03	Bogin et al.	711	137	
	АН	6,590,816 B2	07/08/03	Perner	365	200	
	Al	6,622,227 B2	09/16/03	Zumkehr et al.	711	167	
	AJ	6,631,440 B2	10/07/03	Jenne et al.	711	105	
	AK	2002/0144064 A1	10/03/02	Fanning	711	144	
	AL	2003/0005223 A1	01/02/03	Coulson et al.	711	118	
5	AM	2003/0043426 A1	03/06/03	Baker et al.	359	109	
	AN.	2003/0229770 A1	12/11/03	Jeddeloh	711	213	

FOREIGN PATENT DOCUMENTS

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Intel, "Intel 840 Chipset:	82840 Memory Controller Hub (MCH)", Datasheet,	October	1999
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4	AA	4,045,781	08/30/77	Levy et al		364	200		
	AB	5,479,370	12/26/95	Furuyama	et al.	365	189.12		
	AC	5,729,709	03/17/98	Harness		395	405		
	AD	5,875,454	02/23/99	Craft et al	•	711	113		
	AE	6,186,400 B1	02/13/01	Dvorkis e	t al.	235	462.45		
	AF	6,243,831 B1	06/05/01	Mustafa e	t al.	714	24		
	λG	6,256,692 B1	07/03/01	Yoda et al		710	104		
la	Н	6,438,668 B1	08/20/02	Esfahani e	et al.	711	165		
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JAA	4,953,930	09/04/90	Ramsey e	t al.	350		96.11		
АВ	5,987,196	11/16/99	Noble		385		14		
AC	6,715,018 B2	03/30/04	Farnworth	et al.	710		300		
AD	6,811,320 B1	11/02/04	Abbott		385		58		
AE	6,821,029 B1	11/23/04	Grung et a	al	385		92		
AF	2004/0126115 A1	07/01/04	Levy et al	•	398		116		
200	2004/0144994 A1	07/29/04	Lee et al.		257		200		
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APPLICATION NO. ATTY. DOCKET NO. FORM PTO-1449 (REV.7-80) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 10/690,810 501293.01 (30264/US) APPLICANT(S) INFORMETER **CLOSURE STATEMENT** James W. Meyer and Cory Kanski (Use several sheets if necessary) FILING DATE **GROUP ART UNIT** 2186 October 20, 2003 U.S. PATENT DOCUMENTS •EXAMINER CLASS SUBCLASS FILING DATE DOCUMENT NUMBER DATE NAME IF APPROPRIATE Hirzel et al. 375 110 4,608,702 08/26/86 4,891,808 01/02/90 Williams 370 112 242 370 05/05/98 Riley 5,748,616 327 141 6,208,180 B1 03/27/01 Fisch et al. 711 170 6,889,304 B2 05/03/05 Perego et al. 6,910,109 B2 06/21/05 Holman et al. 711 156 Nino, Jr. et al. 711 . 105 2003/0217223 A1 11/20/03 189.12 365 2003/0227798 A1 12/11/03 Pax FOREIGN PATENT DOCUMENTS

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	АА	5,327,553	07/05/94	Jewett et a	al.	395		575		
• }	АВ	5,706,224	01/06/98	Srinivasar	n et al.	365		49		_
	AC	6,131,149	10/10/00	Lu et al.		711		167		
	AD	6,219,725 B1	04/17/01	Diehl et al	<u>. </u>	710.		26		
	AE	6,286,083 B1	09/04/01	Chin et al.	·	711		151		
	AF	6,493,803 B1	12/10/02	Pham et a	1.	711		147		
	AG	6,564,329 B1	05/13/03	Cheung et	al.	713		322		
	АН	6,665,202 B2	12/16/03	Lindahl et	al.	365		49		
1	ΑI	2004/0044833 A1	03/04/04	Ryan		711		5		
L	1	2005/0044327 A1	02/24/05	Howard e	t al.	711		147		
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(/)	AA	6,845,409 B1	01/18/05	Talagala e	t al.	710		20		
	AB	2003/0149809 A1	08/07/03	Jensen et	al.	710		22	_	
4)	AC	2004/0236885 A1	11/25/04	Fredriksso	on et al.	710		100		
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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*EXAMINER INVITAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,707,823	11/17/87	Holdren et al.	370	1	
STPE,	В	5,241,506	08/31/93	Motegi et al.	365	210	
N 1 9 2004	4	5,243,703	09/07/93	Farmwald et al.	395	325	
	S,D	5,319,755	06/07/94	Farmwald et al.	395	325	
N 1 9 2004	AE	5,355,391	10/11/94	Horowitz et al.	375	36	
	AF	5,432,823	07/11/95	Gasbarro et al.	375	356	
	AG	5,465,229	11/07/95	Bechtolsheim et al.	345	477	
	АН	5,502,621	03/26/96	Schumacher et al.	361	760	
	AI	5,566,325	10/15/96	Bruce, II et al.	395	494	
	AJ	5,581,767	12/03/96	Katsuki et al.	395	800	
	AK	5,606,717	02/25/97	Farmwald et al.	395	856	
	AL	5,638,334	06/10/97	Farmwald et al.	365	230.03	
	AM	5,819,304	10/06/98	Nilsen et al.	711	5	
	AN	5,928,343	07/27/99	Farmwald et al.	710	104	
	AO	5,973,935	10/26/99	Schoenfeld et al.	361	813	
	AP	5,973,951	10/26/99	Bechtolsheim et al.	365	52	
	AQ	6,029,250	02/22/00	Keeth	713	400	
	AR	6,061,296	05/09/00	Ternullo, Jr. et al.	365	233	
	AS	6,125,431	09/26/00	Kobayashi	711	154	
	AT	6,175,571 B1	01/16/01	Haddock et al.	370	423	
	ΑU	6,185,352 B1	02/06/01	Hurley	385	114	
	ΑV	6,247,107 B1	06/12/01	Christie	711	216	
7	χW	6,294,937 B1	09/25/01	Crafts et al.	327	158	
	,xx	6,370,068 B2	04/09/02	Rhee	365	196	

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO. 501293.01 (30264/US) APPLICATION NO. 10/690,810

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FILING DATE October 20, 2003 GROUP ART UNIT 2186

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1	AY	6,401,213 B1	06/04/02	Jeddeloh	713	401	
	ΑZ	6,430,696 B1	08/06/02	Keeth	713	503	
	ВА	6,434,736 B1	08/13/02	Schaecher et al.	716	17	
	вв	6,479,322 B2	11/12/02	Kawata et al.	438	109	
	вс	6,490,188 B2	12/03/02	Nuxoll et al.	365	63	
	BD	6,629,220 B1	09/30/03	Dyer	711	158	
	BE	6,646,929 B1	11/11/03	Moss et al.	365	194	
	BF	6,662,304 B2	12/09/03	Keeth et al.	713	400	
	ВG	6,667,895 B2	12/23/03	Jang et al.	365	63	
	вн	6,721,195 B2	04/13/04	Brunelle et al.	365	63	
	BI	6,724,685 B2	04/20/04	Braun et al.	365	233	
	Bì	6,735,679 B1	05/11/04	Herbst et al.	711	167	
	вк	6,745,275 B2	06/01/04	Chang	710	305	
	BL	6,751,703 B2	06/15/04	Chilton	711	113	
	вм	6,756,661 B2	06/29/04	Tsuneda et al.	257	673	
	BN	6,771,538 B2	08/03/04	Shukuri et al.	365	185.05	
	во	6,792,059 B2	09/14/04	Yuan et al.	375	354	
	BP	6,799,246 B1	09/28/04	Wise et al.	711	117	
	BQ	6,804,764 B2	10/12/04	LaBerge et al.	711	170	
	BR	6,816,947 B1	11/09/04	Huffman	711	151	
	BS	2003/0043158 A1	03/06/03	Wasserman et al.	345	545	
	вт	2003/0093630 A1	05/15/03	Richard et al.	711	154	
1	BU	2003/0163649 A1	08/28/03	Kapur et al.	711	146	
4	BV	2003/0177320 A1	09/18/03	Sah et al.	711	158	
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FORM PTO-1449 (REV.7-80))		.S. DEPARTMENT ATENT AND TRAD		ATTY. DOCKET NO. 501293.01 (30264/L	JS)	1	ication no. 690,810		
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7	ΑВ	5,822,255	10/13/98	Uchida		365		194		
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•	AE	6,392,653 B1	05/21/02	Malandair	ı et al.	345		501		
1	A.E	6,636,110 B1	10/21/03	Ooishi et	al.	327		565		
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO. 501293.01

APPLICATION NO.

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APPLICANT(S)

James W. Meyer et al.

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	MA	5,251,303	10/05/93	Fogg, Jr. et al.	395	275	
	AB	5,432,907	07/11/95	Picazo, Jr. et al.	395	200	
	AC	5,442,770	08/15/95	Barratt	395	403	
	AD	5,497,476	03/05/96	Oldfield et al.	395	439	
	AE	5,659,798	08/19/97	Blumrich et al.	395	846	
	AF	5,875,352	02/23/99	Gentry et al.	395	843	
	AG	6,061,263	05/09/00	Boaz et al.	365	51	
	АН	6,073,190	06/06/00	Rooney	710	56	
	Al	6,105,075	08/15/00	Ghaffari	710	5	
	AJ	6,137,709	10/24/00	Boaz et al.	365	51	
	AK	6,144,587	11/07/00	Yoshida	365	189.05	
	AL	6,167,465	12/26/00	Parvin et al.	710	22	
	АМ	6,167,486	12/26/00	Lee et al.	711	120	
	AN	6,201,724 B1	03/13/01	Ishizaki et al.	365	49	
	AO	6,233,376 B1	05/15/01	Updegrove	385	14	
	AP	6,243,769 B1	06/05/01	Rooney	710	56	
	AQ	6,285,349 B1	09/04/01	Smith	345	147	-
	AR	6,301,637 B1	10/09/01	Krull et al.	711	112	
	AS	6,327,642 B1	12/04/01	Lee et al.	711	120	
	AT	6,330,205 B2	12/11/01	Shimizu et al.	365	230.06	
	ΑU	6,347,055 B1	02/12/02	Motomura	365	189.05	
	Άν	6,349,363 B2	02/19/02	Cai et al.	711	129	
1	AW	6,356,573 B1	03/12/02	Jonsson et al.	372	46	
Li	AX.	6,367,074 B1	04/02/02	Bates et al.	717	11	

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/	KY	6,373,777 B1	04/16/02	Suzuki		365		230.03		
7	AZ	6,381,190 B1	04/30/02	Shinkai		365		230.03		
	ВА	6,421,744 B1	07/16/02	Morrison	et al.	710		22		
	вв	6,434,639 B1	08/13/02	Haghighi		710		39		
	вс	6,463,059 B1	10/08/02	Movshovi	ch et al.	370		389		
	BD	6,470,422 B2	10/22/02	Cai et al.		711		129		
	BE	6,473,828 B1	10/29/02	Matsui		711		104		
	BF	6,477,614 B1	11/05/02	Leddige e	t al.	711		5		
	BG	6,477,621 B1	11/05/02	Lee et al.		711		120		
	вн	6,496,909 B1	12/17/02	Schimmel	l	711		163		
	ВІ	6,505,287 B2	01/07/03	Uematsu		711		170		
	BJ	6,539,490 B1	03/25/03	Forbes et	al.	713		401		
	вк	6,552,564 B1	04/22/03	Forbes et	al.	326		30		
	BL	6,587,912 B2	07/01/03	Leddige e	t al.	711		5		
	BM	6,594,713 B1	07/15/03	Fuoco et a	al.	710		31		
4	ВМ	2002/0112119 A1	08/15/02	Halbert et	al.	711		115		
			FORE	GN PATEN	NT DOCUMENTS					
		DOCUMENT NUMBER	DATE		COUNTRY	CLA	ss	SUBCLASS	TRANS	LATION
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM, Micron Technology, Inc., 2002, pp. 1-23.

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. 501293.01 (30264/US) APPLICATION NO. 10/690,810

INFORMATION DISCONSURE STATEMENT
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APPLICANT(S)

James W. Meyer and Cory Kanski

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FILING DATE
October 20, 2003

GROUP ART UNIT 2186

	\Rightarrow			PATENT DOCUMENTS NAME	CLASS	SUBCLASS	FILING DATE
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/ /	AA	4,240,143	12/16/80	Besemer et al.	364	200	21
	AB	4,245,306	01/13/81	Besemer et al.	364	200	·
1	AC	4,253,144	02/24/81	Bellamy et al.	364	200	
	AD	4,253,146	02/24/81	Bellamy et al.	364	200	
\	AE	4,707,823	11/17/87	Holdren et al.	370	1	
	AF	4,724,520	02/09/88	Athanas et al.	364	200	ļ
	AG	4,930,128	05/29/90	Suzuki et al.	371	12	
	AH	5,241,506	08/31/93	Motegi et al.	365	210	
	AI	5,243,703	09/07/93	Farmwald et al.	395	325	
	ΑJ	5,269,022	12/07/93	Shinjo et al.	395	700	
	AK	5,317,752	05/31/94	Jewett et al.	395	750	ļ
	AL	5,319,755	06/07/94	Farmwald et al.	395	325	ļ
	AM	5,355,391	10/11/94	Horowitz et al.	375	36	ļ
	AN	5,432,823	07/11/95	Gasbarro et al.	375	356	<u> </u>
	AO	5,461,627	10/24/95	Rypinski	370	95.2	
	AP	5,465,229	11/07/95	Bechtolsheim et al.	345	477	<u> </u>
	AQ	2 200 (01	03/26/96	Schumacher et al.	361	760	
	AR	7.566.005	10/15/96	Bruce, II et al.	395	494	
	AS		11/19/96	Combs et al.	395	416	
	AT	2 401 565	12/03/96	Katsuki et al.	395	800	
	AU	4.606.717	02/25/97	Farmwald et al.	395	856	
+	AV	2 (22 22 4	06/10/97	Farmwald et al.	365	230.03	
-	AW		02/03/98	Bennett et al.	395	652	
	N _A X	2010.001	10/06/98	Nilsen et al.	711	5	
//	1	5,832,250	11/03/98	Whittaker DATE CONSIL	395	471	

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APPLICANT(S)

James W. Meyer and Cory Kanski

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ATTY. DOCKET NO. 501293.01 (30264/US) APPLICATION NO. 10/690,810

INFORMATION STATEMENT

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APPLICANT(S)

James W. Meyer and Cory Kanski

FILING DATE
October 20, 2003

GROUP ART UNIT 2186

			U.S.	PATENT DOCUMENTS		,	
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4	вч	6,438,622 B1	08/20/02	Haghighi et al.	710	1	
	вz	6,449,308 B1	09/10/02	Knight, Jr. et al.	375	212	
	CA	6,453,393 B1	09/17/02	Holman et al.	711	154	
	СВ	6,479,322 B2	11/12/02	Kawata et al.	438	109	
	СС	6,490,188 B2	12/03/02	Nuxoll et al.	365	63	
	CD	6,501,471 B1	12/31/02	Venkataraman et al.	345	424	
	CE	6,594,722 B1	07/15/03	Willke, II et al.	710	313	
	CF	6,598,154 B1	07/22/03	Vaid et al.	712	237	
	CG	6,615,325 B2	09/02/03	Mailloux et al.	711	154	
	СН	6,628,294 B1	09/30/03	Sadowsky et al.	345	568	
	CI	6,629,220 B1	09/30/03	Dyer	711	158	
	С1	6,646,929 B1	11/11/03	Moss et al.	365	194	
	СК	6,658,509 B1	12/02/03	Bonella et al.	710	100	
	CL	6,662,304 B2	12/09/03	Keeth et al.	713	400	
	СМ	6,667,895 B2	12/23/03	Jang et al.	365	63	<u> </u>
	CN	6,697,926 B2	02/24/04	Johnson et al.	711	167	
	СО	6,718,440 B2	04/06/04	Maiyuran et al.	711	137	
	СР	6,721,195 B2	04/13/04	Brunelle et al.	365	63	
	+	6,724,685 B2	04/20/04	Braun et al.	365	233	
	CR	l	04/27/04	Lee et al.	710	54	
	cs	6,735,679 B1	05/11/04	Herbst et al.	711	167	
	СТ	6,735,682 B2	05/11/04	Segelken et al.	711	220	
	cu	4.545.055.00	06/01/04	Chang	710	305	
1	gv		06/15/04	Chilton	711	113	<u></u>
1	J _{CW}		06/22/04	Abdallah et al.	712	234	

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ATTY. DOCKET NO. 501293.01 (30264/US) APPLICATION NO. 10/690,810

APPLICANT(S)

James W. Meyer and Cory Kanski

FILING DATE

October 20, 2003

GROUP ART UNIT 2186

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

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	cx	6,756,661 B2	06/29/04	Tsuneda et al.	257	673	
	CY	6,760,833 B1	07/06/04	Dowling	712	34	
	cz	6,771,538 B2	08/03/04	Shukuri et al.	365	185.05	
	DA	6,775,747 B2	08/10/04	Venkatraman	711	137	
	DB	6,789,173 B1	09/07/04	Tanaka et al.	711	147	
	DC	6,792,059 B2	09/14/04	Yuan et al.	375	354	
	DD	6,792,496 B2	09/14/04	Aboulenein et al.	710	306	
	DE	6,795,899 B2	09/21/04	Dodd et al.	711	137	
	DF	6,799,246 B1	09/28/04	Wise et al.	711	117	
	DG	6,799,268 B1	09/28/04	Boggs et al.	712	228	
	DH	6,804,760 B2	10/12/04	Wiliams	711	170	
	DI	6,804,764 B2	10/12/04	LaBerge et al.	711	170	
	DJ.	6,807,630 B2	10/19/04	Lay et al.	713	2	
	DK	6,816,947 B1	11/09/04	Huffman	711	151	
	DL	6,820,181 B2	11/16/04	Jeddeloh et al.	711	169	
	DM	6,823,023 B1	11/23/04	Hannah	375	296	
	DN	2001/0039612 A1	11/08/01	Lee	713	2	
	DO	2002/0116588 A1	08/22/02	Beckert et al.	711		
	DP	2003/0043158 A1	03/06/03	Wasserman et al.	345	545	
	DQ		05/15/03	Richard et al.	711	154	
	DR	2003/0163649 A1	08/28/03	Kapur et al.	711	146	
	DS	2003/0177320 A1	09/18/03	Sah et al.	711	158	
-/-	Dr	2005/0071542 A1	03/31/05	Weber et al.	711	105	
11h	/ -	2003/00/1342 A1	05/51/05				
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		OTHER:	PRIOR ART	(Including	Author, Title, Date, Pertinent F	Pages, Etc.)			
				In Card	for Embedded System	ıs", Ap	plica	ation Note	AP-75	8,
	ЕВ	September, 1997, p	p. i-13.							_
		Shanley, T. et al., "	PCI System	Architec	ture", Third Edition,	Mindsl	nare,	Inc., 1995	<u>, pp. 2</u>	<u>4-25.</u>
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